

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Withdrawn) A computerized method for a system to interpret a numerical data pertaining to a sample assay comprising at least one biological or chemical sample, said numerical data including a set of data pertaining to each respective sample, each of said set of data including a plurality of data values, each representing a condition of said respective sample at a point in time, said method comprising the steps of:

for each set of data, performing the steps of:

representing each of said plurality of data values as points on a graph having a vertical axis representing a magnitude of said plurality of data values and a horizontal axis representing a period of time during which readings of said sample were taken to obtain the plurality of data values;

correcting said plurality of data values based on said magnitude of at least one of said plurality of data values;

reducing said plurality of corrected data values for each set of data values;

determining whether said reduced plurality of data values corresponds to a predetermined reference value; and

controlling said system to indicate whether said sample has a predetermined characteristic based on a result of said determining step.

2. (Withdrawn) The method as claimed in claim 1, wherein said correcting step includes adjusting said magnitude of at least one of said plurality of data values in relation to said magnitude of adjacent ones of said plurality of data values on said graph.

3. (Withdrawn) The method as claimed in claim 1, further comprising the steps of:
comparing said plurality of corrected data values to a predetermined threshold value; and
further correcting said plurality of corrected data values based on whether said plurality of data values exceeds said predetermined threshold value.

4. (Withdrawn) The method as claimed in claim 3, wherein when said comparing step determines that said plurality of corrected data values exceeds said predetermined threshold value, said controlling step controls said system to indicate that said sample was not present.

5. (Withdrawn) The method as claimed in claim 1, wherein said reducing step includes combining each of said plurality of corrected data values for each set of data at respective points in time on said graph and calculating a representative value of the plurality of combined corrected data values for use in said determining step.

6. (Withdrawn) The method as claimed in claim 1, wherein said correcting step includes calculating said correction values based on a plurality of said data values at a beginning of a sequence of said plurality of data values.

7. (Withdrawn) The method as claimed in claim 1, wherein when said determining step determines that said reduced plurality of data values corresponds to said predetermined characteristic, said controlling step controls said system to indicate that said sample has said predetermined characteristic.

8. (Withdrawn) The method as claimed in claim 1, wherein when said determining step determines that said reduced plurality of data values does not corresponds to said predetermined characteristic, said controlling step controls said system to indicate that said sample is absent said predetermined characteristic.

9. (Currently Amended) A tangible medium containing instructions that when executed by one or more processors performs a method for analyzing numerical data pertaining to a sample assay, the sample assay comprising at least one biological or chemical sample, the numerical data comprising one set of data pertaining to each respective sample, each set of data pertaining to each respective sample comprising a plurality of data values, and each set of data representing a condition of each respective sample at a point in time, the method comprising the steps of:

for each set of data, performing the steps of:

assigning respective numerical values to each of the plurality of data values;

initially correcting the respective numerical values;

initially comparing the initially corrected respective numerical values to a threshold value;

subsequently correcting the initially corrected respective numerical values based on whether the initially corrected respective numerical values exceed the threshold value;

subsequently comparing the subsequently corrected respective numerical values to a reference value corresponding to a predetermined assay; and

indicating displaying to a user whether said sample assay has a predetermined characteristic based on the result of the subsequent comparison.

10. (Previously Presented) The method as claimed in claim 9, wherein the assigning respective numerical values to each of the plurality of data values further comprises arranging the plurality of data values in a time-ordered sequence representative of the respective points in time.

11. (Previously Presented) The method as claimed in claim 10, wherein the initially correcting step further comprises calculating a correction value based on one or more of the respective numerical values at a beginning of the time-ordered sequence.

12. (Previously Presented) The method as claimed in claim 11, wherein the initially correcting step further comprises adjusting each of the respective numerical values in relation to adjacent in time respective numerical values in the time-ordered sequence.

13. (Previously Presented) The method as claimed in claim 9, wherein the initially comparing step further comprises calculating an average value of the initially corrected numerical values and comparing average value to the threshold value.

14. (Previously Presented) The method as claimed in claim 9, wherein the subsequently correcting step further comprises correcting each of the initially corrected numerical values in relation to adjacent in sequence initially corrected respective numerical values in a time-ordered sequence representative of the respective points in time.

15. (Previously Presented) The method as claimed in claim 14, wherein the subsequently correcting step further comprises combining initially corrected respective numerical values from each respective point in time and summarizing the combined initially corrected respective numerical values into a numerical value representative of the combined initially corrected respective numerical values.

16. (Previously Presented) The method as claimed in claim 15, wherein the subsequently comparing step further comprises comparing the combined initially corrected respective numerical values to the reference value.

17. (Previously Presented) The method as claimed in claim 9, further comprising assigning respective time values to the plurality of data values representative of the respective point in time.

18. (Previously Presented) The method as claimed in claim 9, further comprising reporting whether the initially corrected numerical values exceed the threshold value.

19. (Withdrawn) A computer readable medium of instructions for controlling a system to analyze a numerical data pertaining to a sample assay comprising at least one biological or chemical sample, said numerical data including a set of data pertaining to each respective sample, each of said set of data including a plurality of data values, each representing a condition of said respective sample at a point in time, said medium of instructions comprising:

a first set of instructions, adapted to control said system to represent each of said plurality of data values as points on a graph having a vertical axis representing a magnitude of said plurality of data values and a horizontal axis representing a period of time during which readings of said sample were taken to obtain the plurality of data values;

a second set of instructions, adapted to control said system to correct said plurality of data values based on said magnitude of at least one of said plurality of data values;

a third set of instructions, adapted to control said system to reduce said plurality of corrected data values for each set of data values;

a fourth set of instructions, adapted to control said system to determine whether said reduced plurality of data values corresponds to a predetermined reference value; and

a fifth set of instructions, adapted to control said system to controlling said system to indicate whether said sample has a predetermined characteristic based on a result of the determining step.

20. (Withdrawn) A computer-readable medium as claimed in claim 19, wherein said second set of instructions is further adapted to control said system to adjust a magnitude of at least one of the plurality of data values in relation to a magnitude of adjacent ones of said plurality of data values on said graph.

21. (Withdrawn) A computer-readable medium as claimed in claim 19, further comprising a sixth set of instructions adapted to control said system to compare said plurality of corrected data values to a predetermined threshold value and to further correct said plurality of corrected data values based on whether said plurality of corrected data values exceeds said threshold value.

22. (Withdrawn) A computer-readable medium as claimed in claim 21, wherein when said fourth set of instructions determines that said plurality of data values exceeds said predetermined threshold value, said fifth set of instructions controls said system to indicate that said sample was not present.

23. (Withdrawn) A computer-readable medium as claimed in claim 19, wherein said third set of instructions is further adapted to control said system to combine each of said plurality of corrected data values for each set of data at respective points in time on said graph and to calculate a

representative value of the plurality of combined corrected data values for use in said determining step.

24. (Withdrawn) A computer-readable medium as claimed in claim 19, wherein said fifth set of instructions is further adapted to control said system to report predetermined characteristic based on said determining step.

25. (Withdrawn) A computer-readable medium as claimed in claim 19, wherein said fifth set of instructions is further adapted to control said system to indicate that said sample has said predetermined characteristic when said determining step determines that said reduced plurality of data corresponds to said predetermined characteristic.

26. (Withdrawn) A computer-readable medium as claimed in claim 19, wherein said fifth set of instructions is further adapted to control said system to indicate that said sample is absent said predetermined characteristic when said determining step determines that said reduced plurality of data does not corresponds to said predetermined characteristic.

27. (Withdrawn) A computerized method for a system to interpret a numerical data pertaining to a sample assay comprising at least one biological or chemical sample, said numerical data including a set of data pertaining to each respective sample, each of said set of data including a plurality of data values, each representing a condition of said respective sample at a point in time, said method comprising the steps of:

for each set of data, performing the steps of:

a means for representing each of said plurality of data values as points on a graph having a vertical axis representing the magnitude of said plurality of data values and a horizontal axis

representing a period of time during which readings of said sample were taken to obtain the plurality of data values;

a means for correcting said plurality of data values based on said magnitude of at least one of said plurality of data values;

a means for reducing said plurality of corrected data values for each set of data values;

a means for determining whether said reduced plurality of data values corresponds to a predetermined reference value; and

a means for controlling said system to indicate whether said sample has a predetermined characteristic based on a result of the determining step.

28. (Withdrawn) The method as claimed in claim 27, wherein said correcting means includes a means for adjusting a magnitude of at least one of the plurality of data values in relation to a magnitude of adjacent ones of said plurality of data values on said graph.

29. (Withdrawn) The method as claimed in claim 27, further comprising the steps of:

a means for comparing said plurality of data values to a predetermined threshold value; and

a means for further correcting said plurality of corrected data values based on whether said plurality of data values exceeds said predetermined threshold value.

30. (Withdrawn) The method as claimed in claim 27, wherein when said comparing means determines that said plurality of corrected data values exceeds said predetermined threshold value, said controlling means control said system to indicate that a sample was not present.

31. (Withdrawn) The method as claimed in claim 27, wherein said reducing means includes a means for combining each of said plurality of corrected data values for each set of data at respective points in time on said graph and a means for calculating a representative value of the plurality of combined corrected data values for use by said determining means.

32. (Withdrawn) The method as claimed in claim 27, wherein said controlling means controls said system to report said predetermined characteristic based on said determining means.

33. (Withdrawn) The method as claimed in claim 27, wherein when said determining means determines that said reduced plurality of data corresponds to said predetermined characteristic, said controlling means controls said system to indicate that said sample has said predetermined characteristic.

34. (Withdrawn) The method as claimed in claim 27, wherein when said determining means determines that said reduced plurality of data does not corresponds to said predetermined characteristic, said controlling means controls said system to indicate that said sample is absent said predetermined characteristic.

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☒ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.